

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1. (Currently Amended) A method executed by a processor for identifying cells in a path in a flowchart, the method comprising:

(a) displaying a flowchart comprising a plurality of cells, wherein at least some of the cells in the flowchart comprise instructions that are implemented by an application to provide an interactive multimedia presentation, wherein at least one of the plurality of cells comprises an instruction to trigger a piece of media during the interactive multimedia presentation, wherein timing information specifies when the piece of media is to be played during the interactive multimedia presentation, and wherein at least one other of the plurality of cells comprises an instruction to gather user input during the interactive multimedia presentation;

(b) receiving, from a user, a selection of a single cell in the flowchart;

(c) determining a path comprising the selected single cell; and

(d) identifying, to the user, at least some of the four cells in the path in a way that distinguishes the at least some of the cells in the path from at least some of the other cells in the flowchart that are not in the path, wherein the way in which the at least some of the cells in the path are distinguished is by displaying the at least some of the cells differently from all of the other cells in the flowchart; and

(e) for at least one of the plurality of cells that comprise an instruction to trigger a piece of media during the interactive multimedia presentation, displaying at least one of the

following: a description of video that will be displayed when the piece of media is played during the interactive multimedia presentation and a description of audio that will be played when the piece of media is played during the interactive multimedia presentation.

2. (Previously Presented) The method of Claim 1, wherein (c) comprises determining a last selected path comprising the selected cell.
3. (Previously Presented) The method of Claim 1, wherein (c) comprises determining a most-frequently selected path comprising the selected cell.
4. (Previously Presented) The method of Claim 1, wherein (c) comprises randomly determining a path comprising the selected cell.
5. (Previously Presented) The method of Claim 1, wherein (c) comprises semi-randomly determining a path comprising the selected cell.
6. (Previously Presented) The method of Claim 1, wherein the flowchart comprises a beginning cell and an end cell, and wherein the path determined in (c) comprises the beginning and end cells.

7. (Previously Presented) The method of Claim 1, wherein the flowchart comprises a beginning cell and an end cell, and wherein the path determined in (c) does not comprise at least one of the beginning and end cells.

8. (Previously Presented) The method of Claim 1, wherein the path determined in (c) comprises at least one of a beginning cell and an end cell, and wherein the at least some of the cells identified in (d) comprise the at least one of the beginning and end cells.

9. (Previously Presented) The method of Claim 1, wherein the path determined in (c) comprises at least one of a beginning cell and an end cell, and wherein the at least some of the cells identified in (d) do not comprise the at least one of the beginning and end cells.

Claim 10 (Cancelled)

11. (Previously Presented) The method of Claim 1, wherein the flowchart is displayed in a first display region, and wherein the at least some of the cells are identified in (d) by displaying a textual view of the at least some of the cells in a second display region.

12. (Previously Presented) The method of Claim 1, wherein the flowchart is displayed in a first display region, and wherein the at least some of the cells are identified in (d) by displaying a copy of the at least some of the cells in a second display region.

13. (Previously Presented) The method of Claim 1, wherein (d) comprises identifying at least four cells in the path.

14. (Previously Presented) The method of Claim 1, wherein (d) comprises identifying all of the cells in the path.

15. (Previously Presented) The method of Claim 1, wherein the at least some of the cells are identified in (d) by highlighting the at least some of the cells in the flowchart.

16. (Previously Presented) The method of Claim 1, wherein the at least some of the cells are identified in (d) by enlarging the at least some of the cells in the flowchart.

17. (Previously Presented) The method of Claim 1, wherein the at least some of the cells are identified in (d) by enlarging the at least some of the cells in the flowchart and reducing the at least some of the other cells in the flowchart.

18. (Previously Presented) The method of Claim 1, wherein the at least some of the cells are identified in (d) by enlarging and aligning the at least some of the cells in the flowchart.

Claim 19 (Cancelled)

20. (Previously Presented) The method of Claim 1 further comprising selecting at least one additional cell in the flowchart, and wherein (c) comprises determining a path comprising the selected cell and the at least one additional cell.
21. (Previously Presented) The method of Claim 20, wherein the selected cell comprises a master cell, and wherein (c) comprises determining a path between the master cell and the at least one additional cell.
22. (Previously Presented) The method of Claim 1 further comprising:
determining N additional path(s) comprising the selected cell; and
identifying at least some of the cells in each of the N additional path(s).
23. (Previously Presented) The method of Claim 22, wherein the first-mentioned path and the N additional path(s) comprise the last N+1 selected paths comprising the selected cell.
24. (Previously Presented) The method of Claim 1 further comprising:
(e) selecting an additional cell in the flowchart;
(f) determining a path comprising the selected additional cell; and
(g) identifying at least some of the cells in the path determined in (f) along with the at least some of the cells in the path determined in (c).

25. (Previously Presented) The method of Claim 1, wherein (c) comprises determining a plurality of paths comprising the selected cell, wherein the invention further comprises selecting one of the plurality of determined paths, and wherein (d) comprises identifying at least some of the cells in the selected one of the plurality of determined paths.

26. (Previously Presented) The method of Claim 25, wherein the plurality of paths comprises every path comprising the selected cell.

27. (Previously Presented) The method of Claim 1 further comprising displaying a textual view of cells that fan-in and fan-out of the selected cell.

Claims 28-29 (Cancelled)

30. (Previously Presented) The method of Claim 1, wherein at least one of the plurality of cells comprises an instruction to process data.

31. (Previously Presented) The method of Claim 1 further comprising playing the flowchart, wherein the cell selected in (b) comprises a cell selected by a user during the playing of the flowchart, and wherein the path determined in (c) comprises the path that was traversed during the playing of the flowchart.

Claims 32-64 (Cancelled)

65. (Currently Amended) A method executed by a processor for identifying cells in a path in a flowchart, the method comprising:

- (a) displaying a flowchart comprising a plurality of cells, wherein the plurality of cells define a plurality of paths, wherein at least some of the cells in the flowchart comprise instructions that are implemented by an application to provide an interactive multimedia presentation, wherein at least one of the plurality of cells comprises an instruction to trigger a piece of media during the interactive multimedia presentation, wherein timing information specifies when the piece of media is to be played during the interactive multimedia presentation, and wherein at least one other of the plurality of cells comprises an instruction to gather user input during the interactive multimedia presentation;
- (b) receiving, from a user, a selection of a single cell in the flowchart;
- (c) in response to the selection of the single cell in the flowchart, determining a path comprising the single cell; and
- (d) identifying, to the user, at least some of the four cells in the path determined in (c) in a way that distinguishes the at least some of the cells in the path from at least some of the other cells in the flowchart that are not in the path, wherein the way in which the at least some of the cells are distinguished is by displaying the at least some of the cells differently from the at least some of the other cells in the flowchart; and
- (e) for at least one of the plurality of cells that comprise an instruction to trigger a piece of media during the interactive multimedia presentation, displaying at least one of the following: a description of video that will be displayed when the piece of media is played during

the interactive multimedia presentation and a description of audio that will be played when the piece of media is played during the interactive multimedia presentation.

66. (Previously Presented) The method of Claim 65, wherein the user selects the single cell by positioning a pointer over the single cell.

67. (Previously Presented) The method of Claim 65, wherein the path is determined in (c) based on the history of the single cell and the history of cells above and below it, if any, in succession.

68. (Previously Presented) The method of Claim 65, wherein (c) comprises, starting with the single cell being a given cell:

(c1) determining which cell directly connected to the given cell was in a determined path the last time the given cell was in a determined path; and

(c2) repeating (c1) with the given cell being the cell determined in (c1).

Claim 69 (Cancelled)

70. (Previously Presented) The method of Claim 65, wherein the flowchart is displayed in a first display region, and wherein the at least some of the cells are identified to the user in (d) by displaying a textual view of the at least some of the cells, but not of the at least some of the other cells in the flowchart, in a second display region.

71. (Previously Presented) The method of Claim 65, wherein the flowchart is displayed in a first display region, and wherein the at least some of the cells are identified to the user in (d) by displaying a copy of the at least some of the cells, but not of the at least some of the other cells in the flowchart, in a second display region.

72. (Currently Amended) A method executed by a processor for identifying cells in a path in a flowchart, the method comprising:

- (a) displaying a flowchart comprising a plurality of cells, wherein the plurality of cells define a plurality of paths, wherein at least some of the cells in the flowchart comprise instructions that are implemented by an application to provide an interactive multimedia presentation, wherein at least one of the plurality of cells comprises an instruction to trigger a piece of media during the interactive multimedia presentation, wherein timing information specifies when the piece of media is to be played during the interactive multimedia presentation, and wherein at least one other of the plurality of cells comprises an instruction to gather user input during the interactive multimedia presentation;
- (b) receiving, from a user, a selection of a single cell in the flowchart;
- (c) determining a path comprising the selected single cell based on the history of the selected cell and the history of cells above and below it, if any, in succession; and
- (d) identifying, to the user, at least some of the four cells in the path determined in (c) in a way that distinguishes the at least some of the cells in the path from at least some of the other cells in the flowchart that are not in the path, wherein the way in which the at least some of the

cells are distinguished is by displaying the at least some of the cells differently from the at least some of the other cells in the flowchart; and

(e) for at least one of the plurality of cells that comprise an instruction to trigger a piece of media during the interactive multimedia presentation, displaying at least one of the following: a description of video that will be displayed when the piece of media is played during the interactive multimedia presentation and a description of audio that will be played when the piece of media is played during the interactive multimedia presentation.

73. (Previously Presented) The method of Claim 72, wherein (c) comprises, starting with the selected cell being a given cell:

(c1) determining which cell directly connected to the given cell was in a determined path the last time the given cell was in a determined path; and
(c2) repeating (c1) with the given cell being the cell determined in (c1).

74. (Previously Presented) The method of Claim 72, wherein (b) comprises positioning a pointer over the cell.

Claim 75 (Cancelled)

76. (Previously Presented) The method of Claim 72, wherein the flowchart is displayed in a first display region, and wherein the at least some of the cells are identified to the user in (d) by

displaying a textual view of the at least some of the cells, but not of the at least some of the other cells in the flowchart, in a second display region.

77. (Previously Presented) The method of Claim 72, wherein the flowchart is displayed in a first display region, and wherein the at least some of the cells are identified to the user in (d) by displaying a copy of the at least some of the cells, but not of the at least some of the other cells in the flowchart, in a second display region.

78. (Currently Amended) A method executed by a processor for identifying cells in a path in a flowchart, the method comprising:

(a) displaying a flowchart in a first display region, wherein the flowchart comprises a plurality of cells defining a plurality of paths, wherein at least some of the cells in the flowchart comprise instructions that are implemented by an application to provide an interactive multimedia presentation, wherein at least one of the plurality of cells comprises an instruction to trigger a piece of media during the interactive multimedia presentation, wherein timing information specifies when the piece of media is to be played during the interactive multimedia presentation, and wherein at least one other of the plurality of cells comprises an instruction to gather user input during the interactive multimedia presentation;

(b) receiving, from a user, a selection of a single cell in the flowchart;

(c) determining a path comprising the selected single cell; and

(d) identifying, to the user, at least some of the cells in the path by displaying a

textual view of the at least some of the cells in the path, but not of at least some of the other cells in the flowchart that are not in the path, in a second display region, whereby the at least some of

the cells in the path are identified in a way that distinguishes the at least some of the cells in the path from the at least some of the other cells in the flowchart that are not in the path, wherein, for at least one of the plurality of cells that comprise an instruction to trigger a piece of media during the interactive multimedia presentation, the textual view provides at least one of the following: a description of video that will be displayed when the piece of media is played during the interactive multimedia presentation and a description of audio that will be played when the piece of media is played during the interactive multimedia presentation.

79. (Previously Presented) The method of Claim 78, wherein (b) comprises positioning a pointer over the cell.

80. (Previously Presented) The method of Claim 78, wherein the path is determined in (c) based on the history of the selected cell and the history of cells above and below it, if any, in succession.

81. (Previously Presented) The method of Claim 78, wherein (c) comprises, starting with the selected cell being a given cell:

- (c1) determining which cell directly connected to the given cell was in a determined path the last time the given cell was in a determined path; and
- (c2) repeating (c1) with the given cell being the cell determined in (c1).

82. (Currently Amended) A method executed by a processor for building a flowchart along a single path, the method comprising:

- (a) displaying a flowchart in a first display region, wherein the flowchart comprises a plurality of cells defining a plurality of paths, wherein at least some of the cells in the flowchart comprise instructions that are implemented by an application to provide an interactive multimedia presentation, wherein at least one of the plurality of cells comprises an instruction to trigger a piece of media during the interactive multimedia presentation, wherein timing information specifies when the piece of media is to be played during the interactive multimedia presentation, and wherein at least one other of the plurality of cells comprises an instruction to gather user input during the interactive multimedia presentation;
- (b) simultaneously displaying a textual view of at least some of the cells along a single path in the flowchart in a second display region and receiving input from a user in the second display region, wherein, for at least one of the plurality of cells that comprise an instruction to trigger a piece of media during the interactive multimedia presentation, the textual view provides at least one of the following: a description of video that will be displayed when the piece of media is played during the interactive multimedia presentation and a description of audio that will be played when the piece of media is played during the interactive multimedia presentation, wherein a textual view of cells not along the single path in the flowchart is not displayed in the second display region, whereby the input is received in the second display region while the second display region displays the textual view of the at least some of the cells along the single path in the flowchart; and
- (c) in response to the input received in (b) in the second display region, applying the input to the first display region, wherein if the input comprises an addition of a new cell in the

second display region, a new cell in the flowchart in the first display region is created, and
wherein if the input comprises a modification of existing text in the second display region, a
corresponding existing cell in the flowchart in the first display region is modified.

83. (Previously Presented) The method of Claim 82, wherein (c) comprises in response to adding new text in the second display region, creating a new cell in the flowchart in the first display region.

84. (Previously Presented) The method of Claim 82, wherein (c) comprises in response to deleting existing text in the second display region, deleting a corresponding existing cell in the flowchart in the first display region.

Claim 85 (Cancelled)

86. (Previously Presented) The method of Claim 82 further comprising determining the single path in response to receiving, from a user, a selection of a single cell in the flowchart.

87. (Previously Presented) The method of Claim 82 further comprising determining the single path based on the history of a selected cell and the history of cells above and below it, if any, in succession.

88. (Previously Presented) The method of Claim 82 further comprising determining the single path by, starting with a selected cell being a given cell:

- (i) determining which cell directly connected to the given cell was in a determined path the last time the given cell was in a determined path; and
- (ii) repeating (i) with the given cell being the cell determined in (i).

89. (Previously Presented) The method of Claim 1, wherein the application that implements the instructions is the same application that performs (a)-(d).

90. (Previously Presented) The method of Claim 1, wherein the application that implements the instructions is different from an application that performs (a)-(d).

91. (Previously Presented) The method of Claim 65, wherein the application that implements the instructions is the same application that performs (a)-(d).

92. (Previously Presented) The method of Claim 65, wherein the application that implements the instructions is different from an application that performs (a)-(d).

93. (Previously Presented) The method of Claim 72, wherein the application that implements the instructions is the same application that performs (a)-(d).

94. (Previously Presented) The method of Claim 72, wherein the application that implements the instructions is different from an application that performs (a)-(d).

95. (Previously Presented) The method of Claim 78, wherein the application that implements the instructions is the same application that performs (a)-(d).

96. (Previously Presented) The method of Claim 78, wherein the application that implements the instructions is different from an application that performs (a)-(d).

97. (Previously Presented) The method of Claim 82, wherein the application that implements the instructions is the same application that performs (a)-(c).

98. (Previously Presented) The method of Claim 82, wherein the application that implements the instructions is different from an application that performs (a)-(c).

99. (Previously Presented) The method of Claim 1, wherein (b)-(d) are performed other than when the flowchart is played.

100. (Previously Presented) The method of Claim 65, wherein (b)-(d) are performed other than when the flowchart is played.

101. (Previously Presented) The method of Claim 72, wherein (b)-(d) are performed other than when the flowchart is played.

102. (Previously Presented) The method of Claim 78, wherein (b)-(d) are performed other than when the flowchart is played.

103. (Previously Presented) The method of Claim 82, wherein (a)-(c) are performed other than when the flowchart is played.